

## CHAPTER OVERVIEW

### 4: Chemical Reactions and Equations

Chemistry is largely about chemical changes. Indeed, if there were no chemical changes, chemistry as such would not exist! Chemical changes are a fundamental part of chemistry. Because chemical changes are so central, it may be no surprise that chemistry has developed some special ways of presenting them.

[4.1: Prelude to Chemical Reactions](#)

[4.2: The Chemical Equation](#)

[4.3: Types of Chemical Reactions - Single and Double Replacement Reactions](#)

[4.4: Ionic Equations - A Closer Look](#)

[4.5: Composition, Decomposition, and Combustion Reactions](#)

[4.6: Neutralization Reactions](#)

[4.7: Oxidation-Reduction Reactions](#)

[4.E: Chemical Reactions and Equations \(Exercises\)](#)

Thumbnail: Reaction of sodium and water breaks the glass vessel. (CC SA-BY-3.0; [Tony Mach](#)).

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